

Week 9 in-class exercises. Fork

For this question, you will write a program that forks one child for each command line argument. The child computes the length of the command line argument and exits with that integer as the return value. The parent sums these return codes and reports the total length of all the command line arguments together. For example, if your program is called `compute_len` and is called as `compute_len divide the load` it prints `The length of all the args is 13.`

```
int main (int argc, char **argv) {
    // Declare any variables you need
    

    // Write the code to loop over the command line arguments.
    // (Remember to skip the executable name.)
    for (  ) {
        // call fork
         = fork();

        if (  ) { //System call error

            //Handle the error
            

        } else if (  ) { //Child process
            //Child does work here
            

            //Child exits
            

        } else {
            //in the parent but before doing next loop iteration
            //wait until a child terminates
            

        }
    }

    //Only the parent gets here, print total args len
    

    return 0;
}
```